FEB 1 6 2012

5.0 510(k) Summary

1. Sponsor

SpineFrontier, Inc. 500 Cummings Center Suite 3500 Beverly, MA 01915

Primary Contact:

Fredy H. Varela, RAC

Telephone:

1- 978-232-3990

Date Prepared:

November 23, 2011

2. Device Name and Classification:

Proprietary Name: Arena-C™ Cervical Intervertebral Body Fusion

System, Arena-C[™] Intervertebral Body Fusion Device System, Arena-C[™] IBFD, Arena-C[™]

IBF, Arena-C™

Common/Usual Name: Intervertebral Fusion Device With Bone Graft,

Cervical

Classification Name: Intervertebral Fusion Device With Bone Graft,

Cervical, (21 CFR 888.3080), Class II

Product Code: ODP

3. Predicate Devices

K090064 Eminent Spine Interbody Fusion System

4. Device Description

The SpineFrontier Cervical Interbody Fusion Device System (Arena-C™ Cervical Intervertebral) is a spinal intervertebral body fusion device intended for intervertebral body fusion of the spine of skeletally mature patients, using autogenous bone graft to facilitate fusion. The device is indicated for use in patients with degenerative disc disease (DDD) of the cervical spine at one disc level from the C2-C3 disc to the C7-T1 disc. The system is comprised of devices made of Peek Optima®, with various heights to fit the anatomical needs of a wide variety of patients. The device has raised contours on the superior and inferior surfaces that will resist the device movement following implantation.

K113518

5. Intended Use

The Arena-C™ Cervical Intervertebral Body Fusion Device is a spinal intervertebral body fusion device intended for intervertebral body fusion of the spine of skeletally mature patients, using autogenous bone graft to facilitate fusion. The device is indicated for use in patients with degenerative disc disease (DDD) of the cervical spine at one disc level from the C2-C3 disc to the C7-T1 disc.

The SpineFrontier Arena-C™ Cervical Intervertebral Body Fusion Device is intended to be used with supplemental spinal fixation system(s) cleared for use in the cervical spine (example: Anterior Cervical Plate Fixation).

Degenerative disc disease is defined as discogenic pain with degeneration of the disc confirmed by history or radiographic studies. These patients should be skeletally mature and have had six (6) weeks of non-operative treatment prior to treatment with an intervertebral cage.

6. Technological Characteristics

The SpineFrontier Arena-C™ Cervical Intervertebral Body Fusion Device was shown to be substantially equivalent to predicate devices through comparison of indications for use, function, operating principles, and materials.

7. Basis for Substantial Equivalence

The SpineFrontier Arena-C™ Cervical Intervertebral Body Fusion Device was evaluated in accordance with FDA Document, Class II Special Controls, Guidance Document: Intervertebral Fusion Device, June 12, 2007, and has been found to meet criteria defined in the guidance document; and has been demonstrated to be substantially equivalent to predicate devices in terms of indications for use, function, materials, and performance (mechanical testing). Clinical data was not required for this device. Mechanical testing includes performance assessments per the following recognized test methods:

- ASTM F2077-03, Static and Dynamic Axial Compression, Static and Dynamic Torsion, and Static and Dynamic Shear Compression
- ASTM F2267-04, Subsidence Under Static Axial Compression
- ASTM Draft Standard F-04.25.02.02, Static Expulsion

P92082

DEPARTMENT OF HEALTH & HUMAN SERVICES



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

SpineFrontier, Inc.
% Mr. Christopher Chang
Director of Operations
500 Cummings Center, Suite 3500
Beverly, Massachusetts 01915

FEB 1 6 2012

Re: K113518

Trade/Device Name: Arena-C Cervical Intervertebral Body Fusion System

Regulation Number: 21 CFR 888.3080

Regulation Name: Intervertebral body fusion device

Regulatory Class: II Product Code: ODP

Dated: November 23, 2011 Received: November 29, 2011

Dear Mr. Chang:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21)

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CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Mark N. Melkerson

Director

Division of Surgical, Orthopedic and Restorative Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

51	0(k)	Num	ber (if Kn	own):

<u>Device Name:</u> Arena-C Cervical Intervertebral Body Fusion System

Indications For Use:

The Arena-C Cervical Intervertebral Body Fusion System is a spinal intervertebral body fusion device intended for intervertebral body fusion of the spine of skeletally mature patients, using autogenous bone graft to facilitate fusion. The device is indicated for use in patients with degenerative disc disease (DDD) of the cervical spine at one disc level from the C2-C3 disc to the C7-T1 disc.

The SpineFrontier Arena-C Cervical Intervertebral Body Fusion System is intended to be used with supplemental spinal fixation system(s) cleared for use in the cervical spine (example: Antieror Cervical Plate Fixation).

Degenerative disc disease is defined as discogenic pain with degeneration of the disc confirmed by history or radiographic studies. These patients should be skeletally mature and have had six (6) weeks of non-operative treatment prior to treatment with an intervertebral cage.

Prescription Use: X	OR	Over-The-Counter Use:
-		(Part 21 CFR 807.109)

PLEASE DO NOT WRITE BELOW THIS LINE- CONTINUE ON ANOTHER PAGE IF NEEDED

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

Division of Surgical, Orthopedic,

and Restorative Devices

510(k) Number K113518

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